DataDoors™ for ArcGIS User Guide

i-cubed

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Introduction

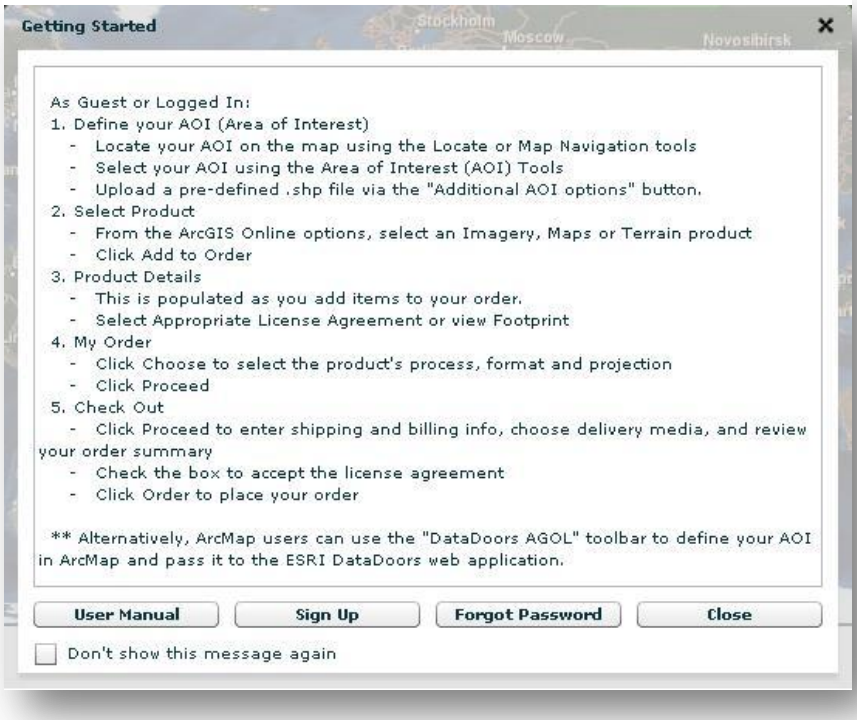
This document is a basic overview of the user flow for DataDoors™ ArcGIS Web client at http://esribeta2.datadoors.net/DataDoorsWeb/Order.aspx. After reading this document a user shall be able to browse the catalog as a Guest or as a registered user, create an AOI, place an order, and check out.

Section 2. Welcome to DataDoors™ for ArcGIS

Instructions / Help

Once the user navigates to the DataDoors™ web client a window with simple instructions for how to use this interface opens. There are buttons to access a user manual, sign up for an account, or retrieve a forgotten password.

Figure 1: Getting Started Instructions


Getting Started
Stockholm
Moscow
Novosibirsk
As Guest or Logged In:
1. Define your AOI (Area of Interest)
- Locate your AOI on the map using the Locate or Map Navigation tools
- Select your AOI using the Area of Interest (AOI) Tools
- Upload a pre-defined .shp file via the "Additional AOI options" button.
2. Select Product
- From the ArcGIS Online options, select an Imagery, Maps or Terrain product
- Click Add to Order
3. Product Details
- This is populated as you add items to your order.
- Select Appropriate License Agreement or view Footprint
4. My Order
- Click Choose to select the product's process, format and projection
- Click Proceed
5. Check Out
- Click Proceed to enter shipping and billing info, choose delivery media, and review your order summary
- Check the box to accept the license agreement
- Click Order to place your order
** Alternatively, ArcMap users can use the "DataDoors AGOL" toolbar to define your AOI in ArcMap and pass it to the ESRI DataDoors web application.
User Manual
Sign Up
Forgot Password
Close
Don't show this message again

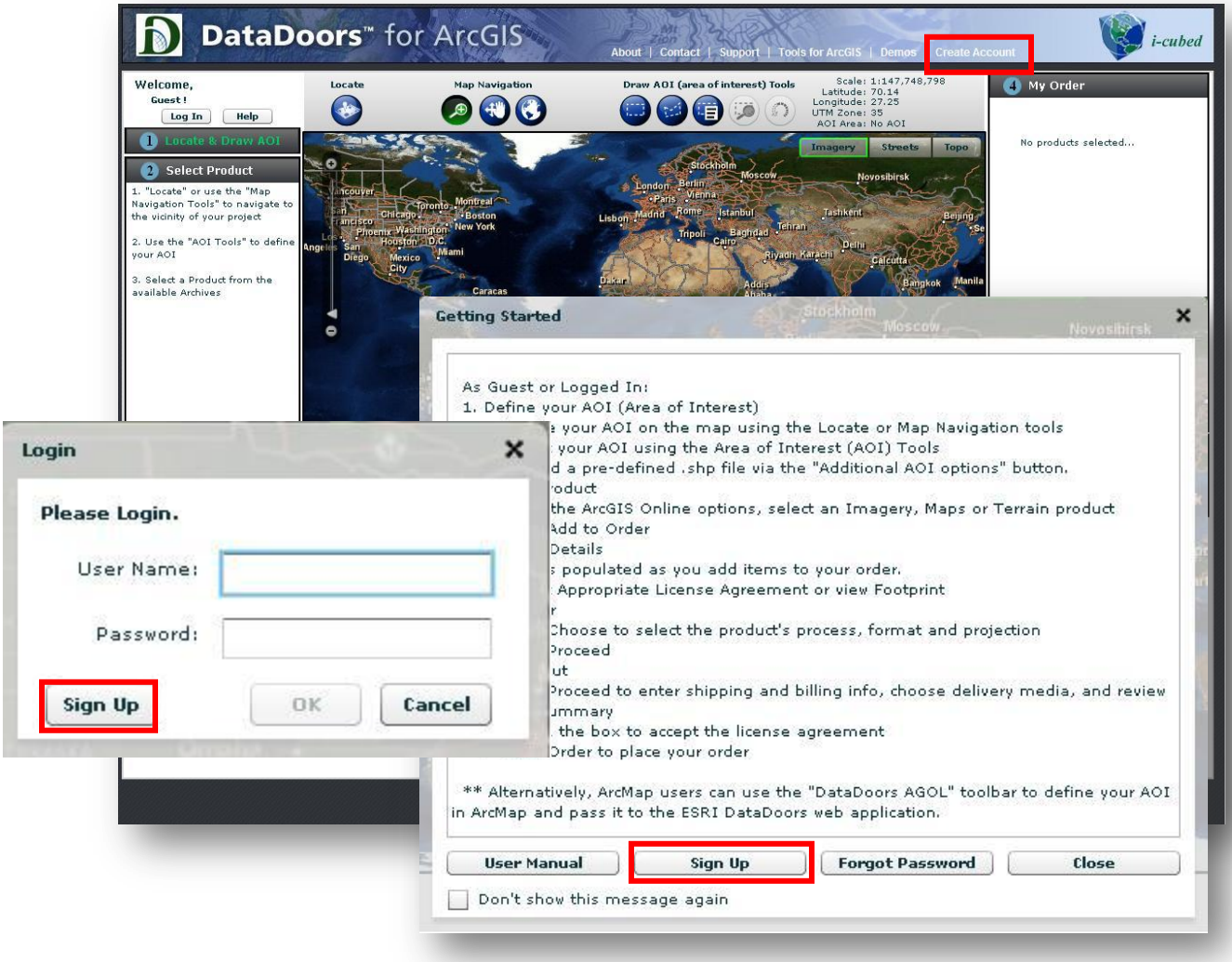
User Manual

Clicking on the **User Manual** button in the Getting Started window, open this document

Sign Up

To request a user account, click **Sign Up** on the Getting Stated dialog box, the login window, or click the **Create Account** link in the DataDoors™ for ArcGIS banner. On the Create An Account form, enter the necessary information and click **Submit**. An e-mail with the subject "DataDoors: New User" containing the user name and password is sent to the e-mail address supplied.

Figure 2: Instructions


DataDoors™ for ArcGIS
About | Contact | Support | Tools for ArcGIS | Demos | Create Account
i-cubed
Welcome,
Guest !
Log In
Help
Locate
Map Navigation
Draw AOI (area of interest) Tools
Scale: 1:147,748,798
Latitude: 70.14
Longitude: 27.25
UTM Zone: 35
AOI Area: No AOI
My Order
No products selected...
Imagery
Streets
Topo
1 Locate & Draw AOI
2 Select Product
1. "Locate" or use the "Map Navigation Tools" to navigate to the vicinity of your project
2. Use the "AOI Tools" to define your AOI
3. Select a Product from the available Archives
Getting Started
As Guest or Logged In:
1. Define your AOI (Area of Interest)
your AOI on the map using the Locate or Map Navigation tools
your AOI using the Area of Interest (AOI) Tools
d a pre-defined .shp file via the "Additional AOI options" button.
oduct
the ArcGIS Online options, select an Imagery, Maps or Terrain product
Add to Order
Details
populated as you add items to your order.
Appropriate License Agreement or view Footprint
Choose to select the product's process, format and projection
Proceed
ut
Proceed to enter shipping and billing info, choose delivery media, and review
ummary
the box to accept the license agreement
Order to place your order
** Alternatively, ArcMap users can use the "DataDoors AGOL" toolbar to define your AOI in ArcMap and pass it to the ESRI DataDoors web application.
User Manual
Sign Up
Forgot Password
Close
Don't show this message again
Login
Please Login.
User Name:
Password:
Sign Up
OK
Cancel

Forgot Password

To request a new password, click **Forgot Password** on the Instructions dialog box. Enter the registered user name (Login) and Zip/Postal Code, then click **Submit**. An e-mail is sent to the e-mail address associated with the login with directions on how to reset the password.

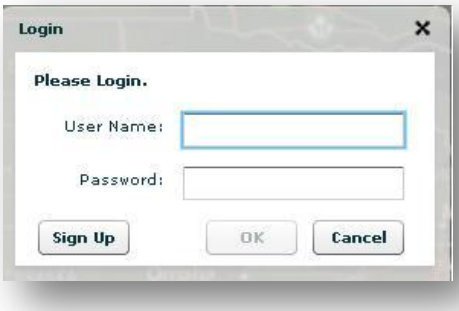
Log in to your DataDoors™ Account

It is not required to log into DataDoors™ to browse the catalog or make a purchase. Guest users of DataDoors™ enjoy all of the functionality of account holders, but are asked to make payment for any imagery purchases with a credit card at the time they are made. Typically, accounts are set up for multi-user businesses who like the convenience of drawing from a purchase order in our accounting department, and the formality of a single monthly invoice for the combined purchases of all of their employees.

Figure 3: DataDoors™ for ArcGIS

Figure 4: Login

1. To log in click the **Log In** button
2. Enter your **User Name** and **Password**
3. Click **OK**



Click the **Help** button within the Welcome section to load the "Getting Started" pop-up window, as seen in Figure 1 above.

Section 3. Locate an Area of Interest (AOI)

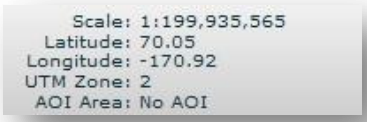
The first step in searching for geospatial data is to locate the general area of interest in the interactive world map.

1. Use the Locate and Map Navigation buttons to locate the general area on the map.

Figure 5: Locate and Map Tools

2. The cursor's location in Latitude and Longitude is displayed in the upper right corner.
   - The **Scale** field displays the ratio between a distance on the map and the corresponding distance on the earth
   - The **Latitude** and **Longitude** are displayed in decimal degrees and referenced to WGS84
   - The **UTM Zone** identifies the zone number
   - The **AOI Area** (No AOI, or sq. km. of the AOI) will also appear in this area.
     - The square are in kilometers will be representative of the AOI once selected

Figure 6: AOI Map information



Locate Place Names by Geographic Names Information System (GNIS)

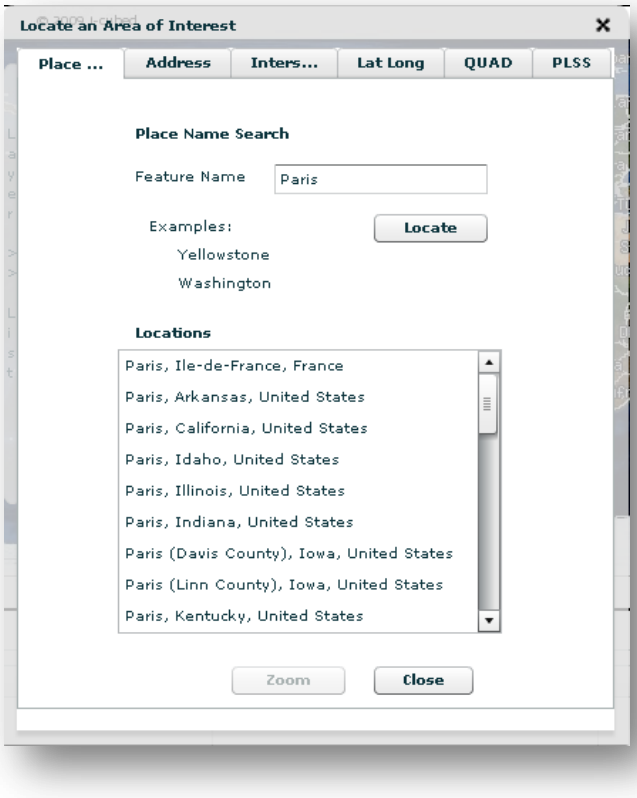
The **Geographic Names Information System** (**GNIS**) is a database that contains name and locative information about more than two million physical and cultural features located throughout the United States of America and its territories. The database is part of a system that includes topographic map names. Variant names, alternatives to official federal names for a feature, are also recorded.

1. To locate a specific place by name Click on the **Locate an Area of Interest** button and a new dialog box will load.

Figure 8: Area of Interest button

2. Choose the **Place Names** to search for a location. The GNIS database is used to search for matches. Enter a "Feature Name", click the **Locate** button, and a list of possible locations will appear in the box below. Choose the most appropriate one and click **Zoom**. The dialog box will close and the map will zoom to the location chosen.

Figure 7: Locate by Place Name

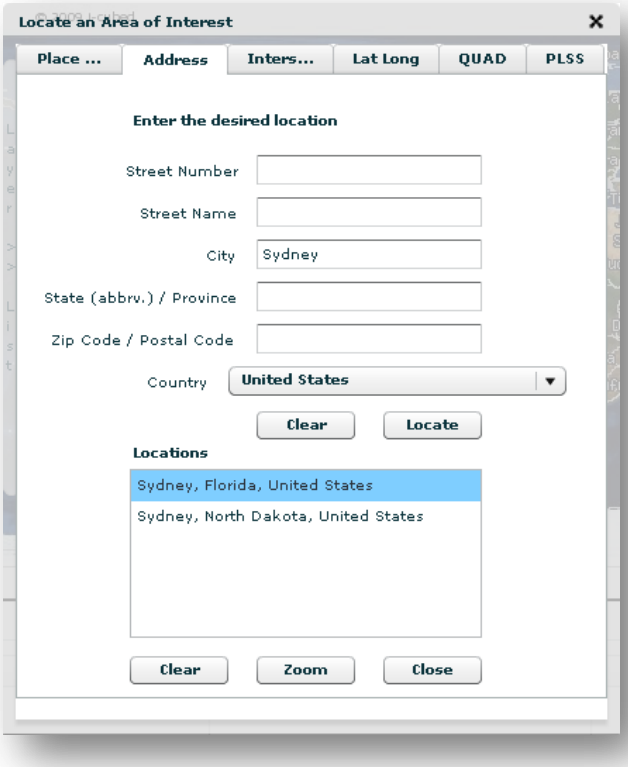


Locate by Address, City, State, Country

An Area of Interest can be found by entering specific point location information such as City, State, or County

1. Click on the **Locate an Area of Interest** button and a new dialog box will load.
2. Select the **Address** tab
3. To search for a physical address, enter information in the appropriate boxes in and click **Locate**. The Location will appear in the bottom box.
    - At minimum a city, state, or zip code is required
4. Locations will be returned in the "Locations" box. Select the most suitable address from those provided and click **Zoom**. The dialog box will close and the map will zoom to the address entered.

Figure 9: Locate by Address

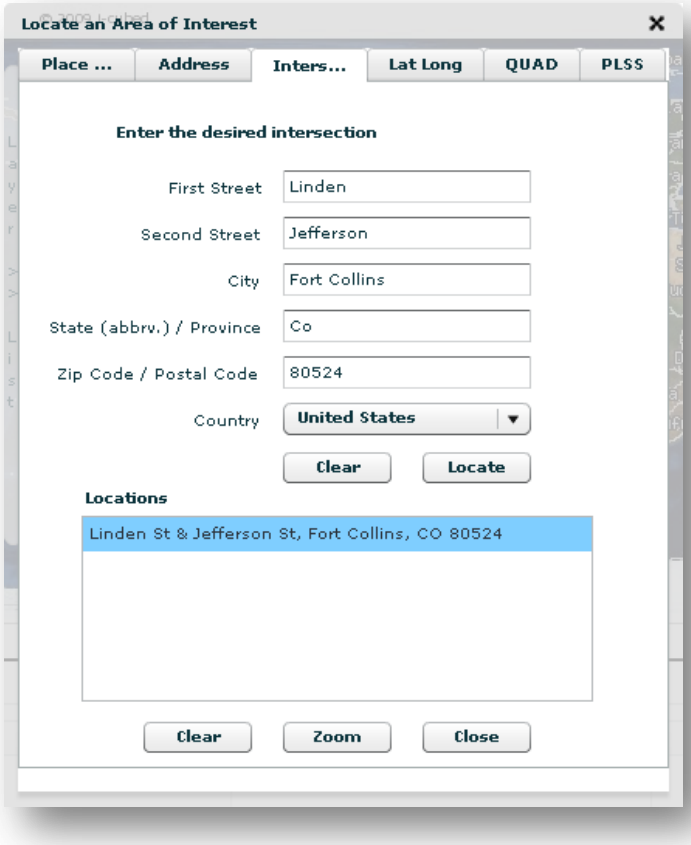


Locate by Intersection

An Area of Interest can be found by entering specific point location information such as a road intersection

1. Click on the **Locate an Area of Interest** button and a new dialog box will load.
2. Choose the **Intersection** tab and enter two intersecting street names in a city.
3. Fill in the remaining boxes and click **Locate.** A list of possible matches will appear in the box below.
4. Choose the correct one and press **Zoom**. The dialog box will close and the map will zoom to the location chosen.

Figure 10: Locate by Intersection

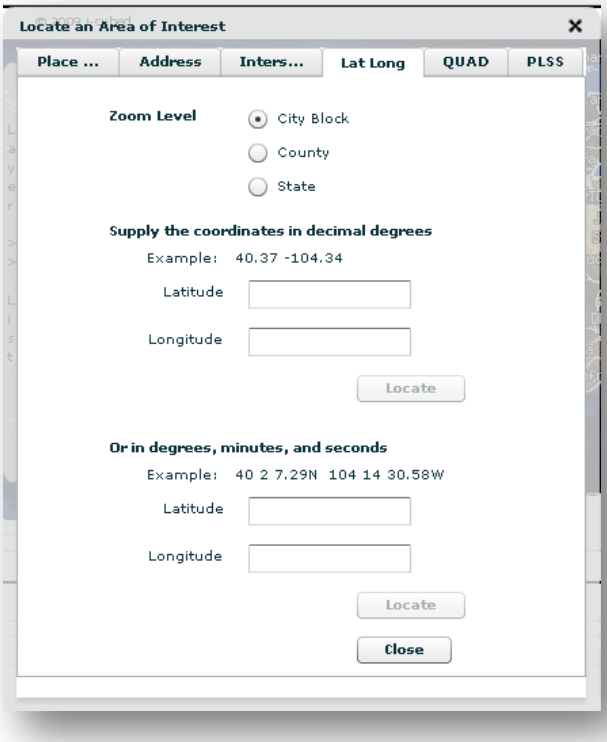


Locate by Coordinates

When a specific geographic coordinate is known, it can be searched for directly

1. Click on the **Locate an Area of Interest** button and a new dialog box will load.
2. Choose the **Lat Long** tab and enter the coordinates in **decimal degrees** or **degrees, minutes and seconds**.
    - Decimal degrees require the use of a minus sign (-) for West and/or South coordinates
    - Degrees, minutes, seconds requires the use of Northern and Easting information at lines end
3. A **Zoom Level,** designating the initial zoom extent, can be selected at City Block, County or State level.
4. Click **Locate**. The map will zoom to the coordinates entered.
5. If the location is correct, click **Close**.

Figure 11: Locate by Coordinates



Locate by QUAD name

The user can search for a specific USGS quadrangle

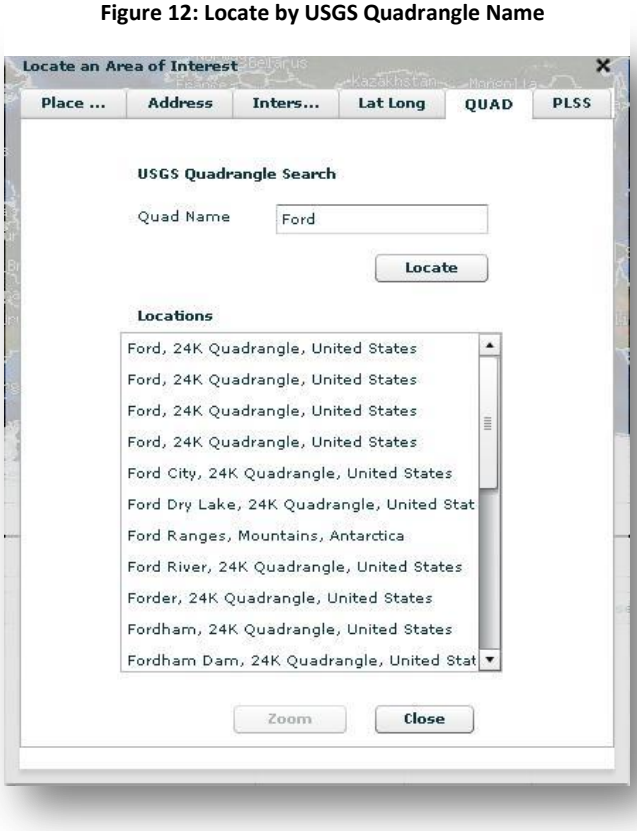
1. Click on the **Locate an Area of Interest** button and a new dialog box will load.

2. Click the **QUAD** tab

3. Enter the known quadrangle name in the **QUAD Name** box

4. Click the **Locate** button
   - A list of Quadrangles will appear in the **Locations** window. Select the most appropriate quad from the list and click the **Zoom** button. This will update the display to the extent of the selected quad.
   - The window will automatically close if a quad is chosen and the zoom button pushed

Figure 12: Locate by USGS Quadrangle Name

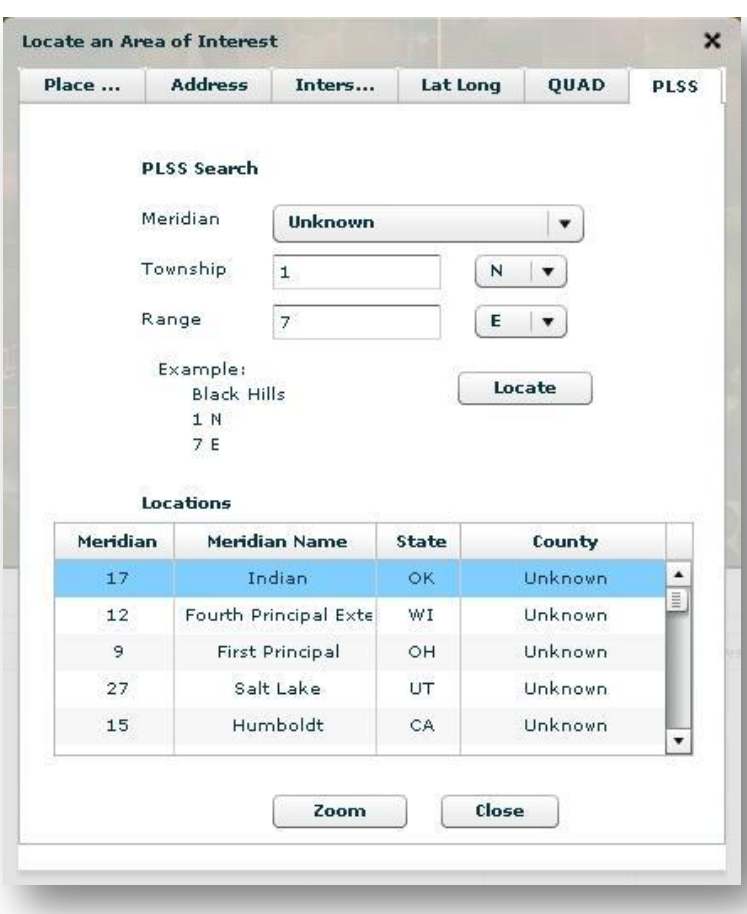


Locating by Public Land Survey System

If PLSS coordinates are known they can be entered and used as search criteria.

1. Click on the **Locate an Area of Interest** button and a new dialog box will load.
2. Click the **PLSS** tab
3. Select the known **Meridian** name, or leave the default set to **Unknown**
4. Enter a **Township** and select **North** or **South** from the drop-down
5. Enter a **Range** and select **West** or **East** from the drop-down
6. Click the **Locate** button
   - A list will appear in the **Locations** window. Select the one you need and click the **Zoom** button. This will update the display to the extent of the selected quad

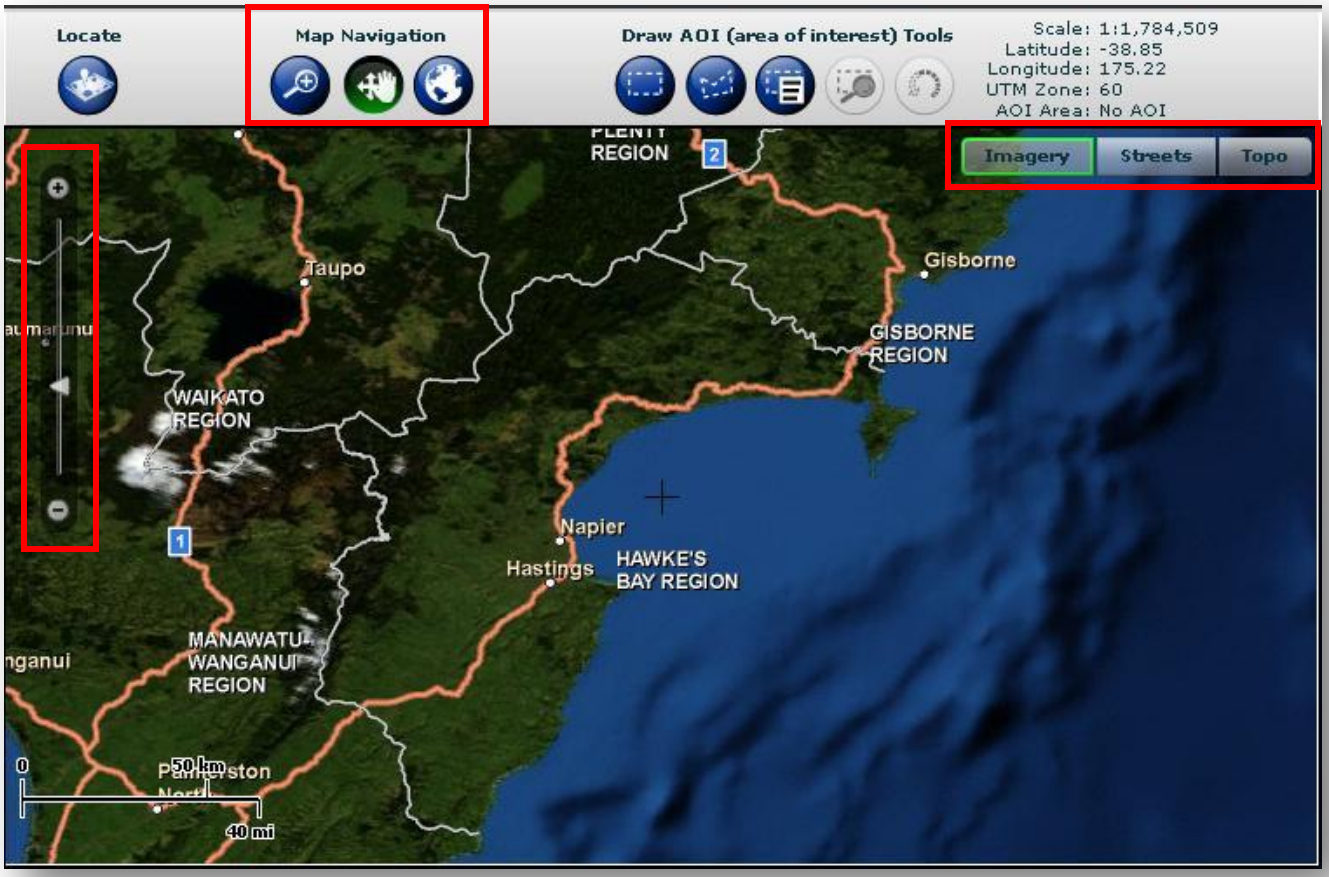
Figure 13: Locate by PLSS



Locate by using Map Navigation Buttons

Use these buttons to maneuver around the map to find your area – **Zoom In**, **Zoom Out**, **Pan**, **Zoom to Previous Extent** and **Zoom to Full Extent**.

Figure 14: Map Navigation Tools



1. Using the + **magnifying glass** will allow the user to zoom into the map, making the scale of the imagery decrease and features seem larger. This button is selected by default when the site loads. Use the cursor to draw a box on the map. The map will automatically zoom to the contents within this box. The box can be drawn in any direction
    a. To make the zoom tool active again, use click the magnifying glass icon; it will turn green and become active.
2. The **pan**, hand icon when pushed will allow the user to pan the imagery within the map window. Click the hand icon to make this functionality active. Once the button becomes active, push and hold the left mouse button while the cursor is in the map window to move the map in the direction of the cursor.
3. To reset the map window to the original map, push the **world** icon.
4. The **scroll** bar on the left side of the map window can be used to zoom in (+ sign) or zoom out (- sign) to the center point of the current map frame.
5. There are three buttons on the top right side of the map window, **Imagery**, **Streets**, and **Topo**. Pushing the **Imagery** button will display background imagery with labels. Pushing the **Streets** button will display roads, and features with labels only. Use the **Topo** button to display a surface model.

Section 4. Define your AOI

Once you have located the general area in the map, the next step is to define a more specific Area of Interest using the **Draw AOI (area of interest) Tools**. This can be done using the **Draw Rectangle AOI**, **Draw Polygon AOI** or **Open Additional AOI Options** tools found at the top right corner of the map. The size of the AOI will be displayed in square kilometers (km^2) and square miles (mi^2) in the upper right section of the application.

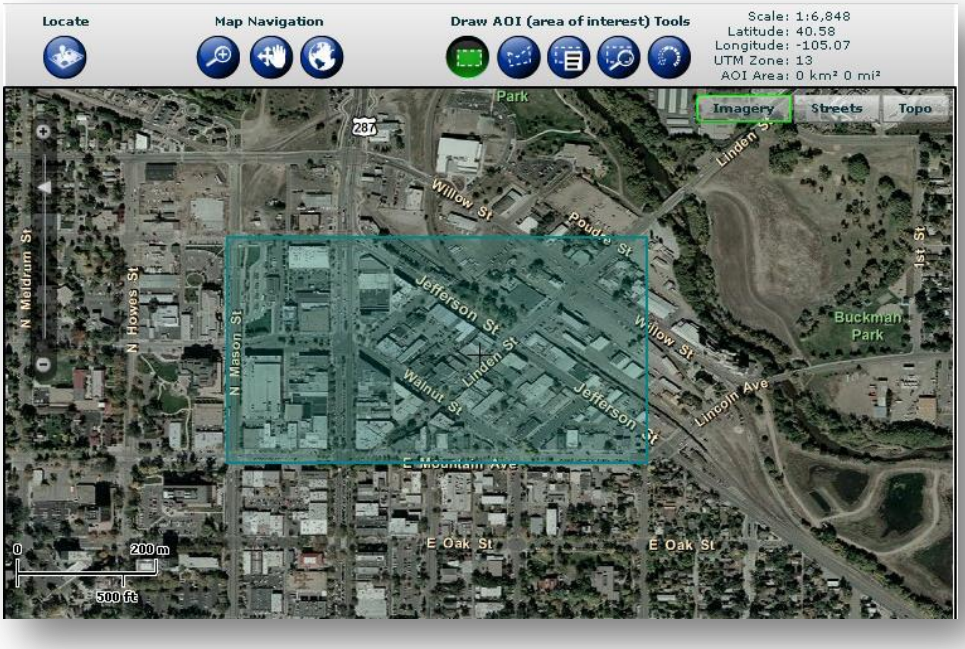
Figure 15: AOI Selection Tools

Draw Rectangle AOI

Drawing a simple rectangle is an easy way to define your AOI. Click the **Draw Rectangle AOI** tool to activate this operation. Place the pointer near your desired AOI and using the left mouse button click and hold, designating the location of the first corner of your rectangle. Drag the pointer to the opposite corner of your AOI and release the button. Your AOI rectangle will be drawn in blue on the map.

Figure 16: Draw Rectangle AOI Tool

Figure 17: Rectangle AOI Drawn with Rectangle Tool



Draw Polygon AOI

If your AOI is a polygon, you can use the **Draw Polygon AOI** option.

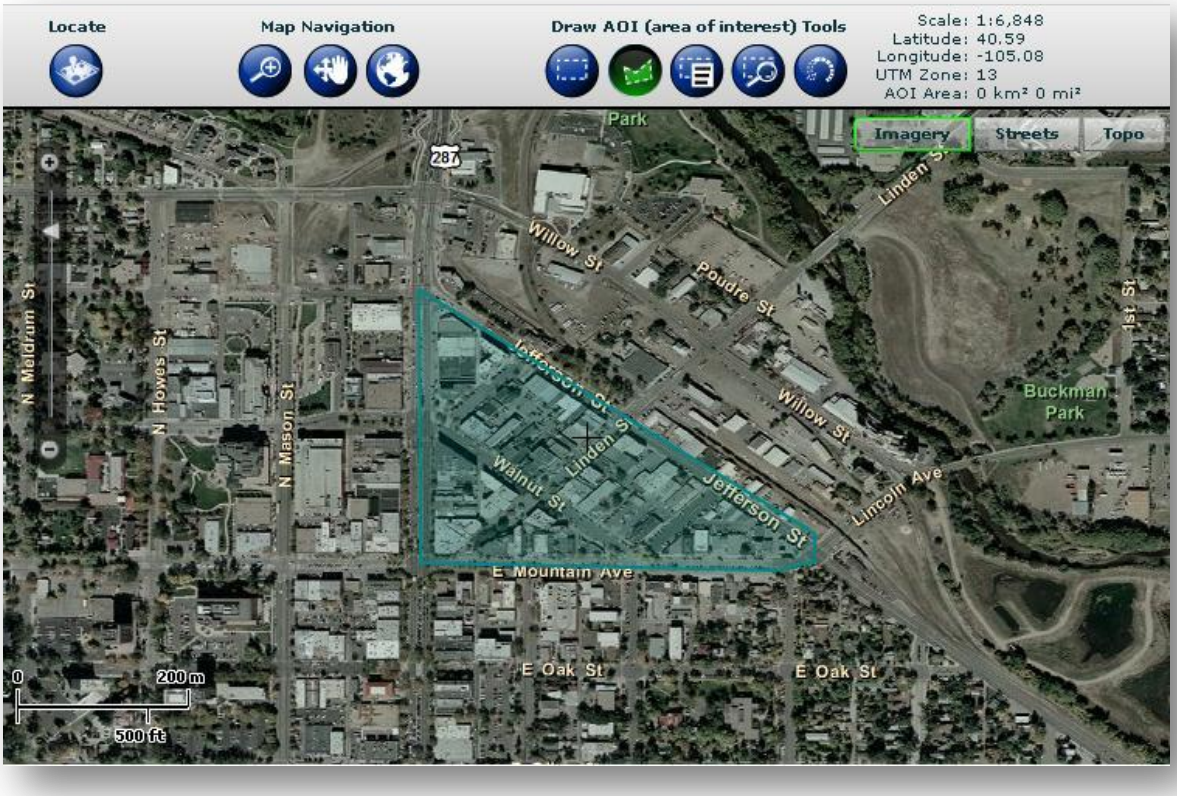
1. Click the **Draw Polygon AOI** button to activate this operation.

2. Use the left mouse button to place each point or vertex. Continue to click on the map to create vertices for your entire polygon.

3. When you have drawn the last vertex, double-click to close the polygon.

Figure 18: Polygon AOI Tool

Figure 19: Example of Polygon AOI



Open Additional AOI Options

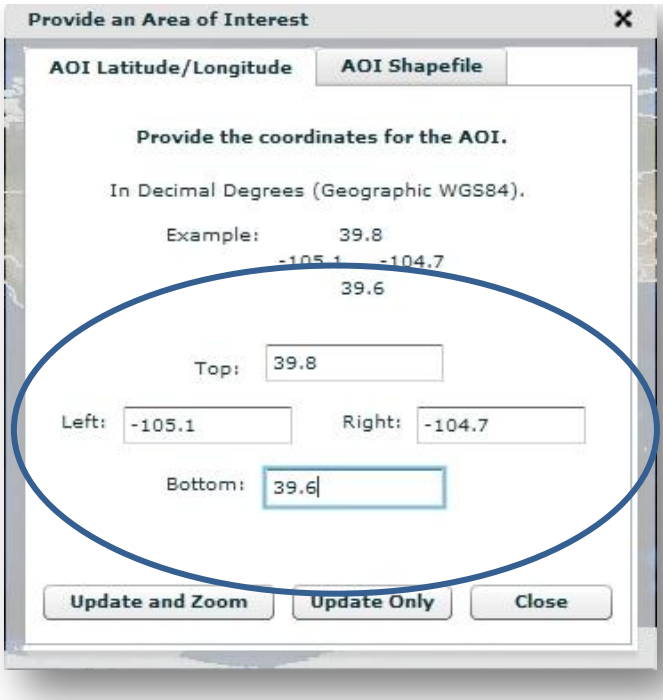
Open Additional AOI Options button will create a rectangle based on entered Top, Left, Bottom and Right coordinates in decimal degrees (Geographic WGS84).

Figure 20: Open AOI Options button

1. Click the **Open Additional AOI Options** button to load the **Provide an Area of Interest** window

2. Select either the AOI Latitude/Longitude or AOI Shapefile Tab
   - **AOI Latitude/Longitude** tab: Enter the appropriate Latitude/Longitude coordinates for your AOI and click the **Update and Zoom** button or **Update Only** button to draw your AOI on the map and populate the Select Product window with data from within your AOI

Figure 21: Provide AOI Lat/Long Coordinates



   - Click either **Update and Zoom** to change the AOI and the zoom the map to AOI or **Update Only** to change the AOI, but not zoom the map. The map will stay where it is.

- **AOI Shapefile** tab: press **Continue** to browse to a locally stored shapefile. The following requirements must be met:
  - The shapefile must be a polygon
  - The shapefile must be referenced to WGS84
  - The shapefile must have less than 2000 vertices

Figure 22: Browse to a Shapefile to use as your AOI

Provide an Area of Interest
AOI Latitude/Longitude
AOI Shapefile
Select a shapefile (.shp) containing an AOI.
Requirements:
1) Only polygon shapefiles are supported.
2) Only Geographic WGS84 is supported.
WARNING: This polygon will overwrite the existing AOI, if you have already specified one. And your shopping cart will be cleared.
NOTE: If using a large, complex shapefile (high number of vertices), you may experience a decline in performance.
Continue
Close

- Once the shapefile is loaded it will be displayed in the map window, and available products will be loaded in the **Select Product** window

Zoom To Your AOI

A properly designated AOI will be represented by shaded blue area. This area will remain on the map throughout the request. Use the **Zoom To Your AOI** button to zoom to a closer view of your area of interest.

Figure 23: Zoom to AOI

Reset Your AOI

To reset your AOI and create a new one, click the **Reset Your AOI** button. Designating a new AOI will update the My Order details with the new AOI information.

Figure 24: Reset Your AOI

Section 5. Product Selection

Once you have selected an AOI, a list of products available within your selected AOI will appear in the **Select Product** panel to the left.

Figure 25: Select Product Panel

Search for Footprints

After you select a product in the in the **Select Product** panel, the **Search** or **Add to Order** button will highlight depending on the dataset selected. Follow the steps below to find the data you need and add it to your order.

1. The **Search** button will highlight if the user has selected a temporal dataset, or raw unprocessed satellite data scenes. Click the highlighted Search button to open the **Search Criteria** window. * If non-temporal data was selected and the **Add to Order** button is highlighted, move to step 2.
   - Enter any of the following criteria such as Date Range, Maximum Cloud Cover, or Scene ID and click the **Search** button.
   - The Product Details window will populate with scenes fitting the search criteria. See Figure 28.
     - **Name/ID** is the footprint identifier
     - **In Order** will display a "yes" once the scene has been added to the shopping cart.

Figure 26: Search Criteria for Temporal Data

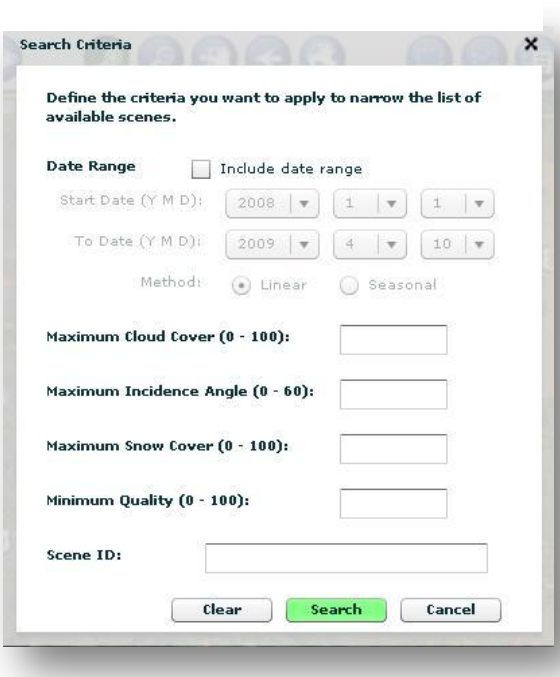
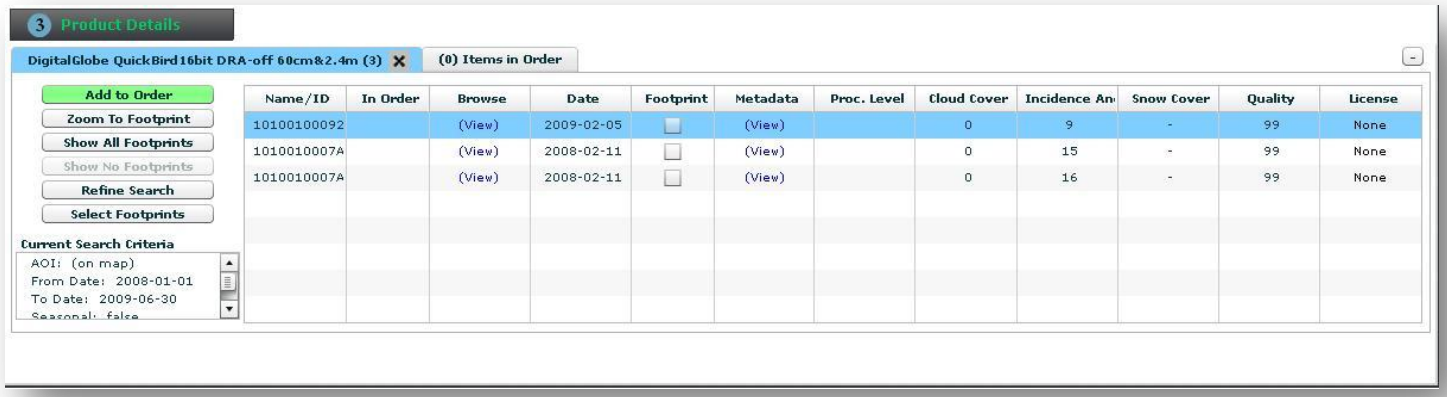
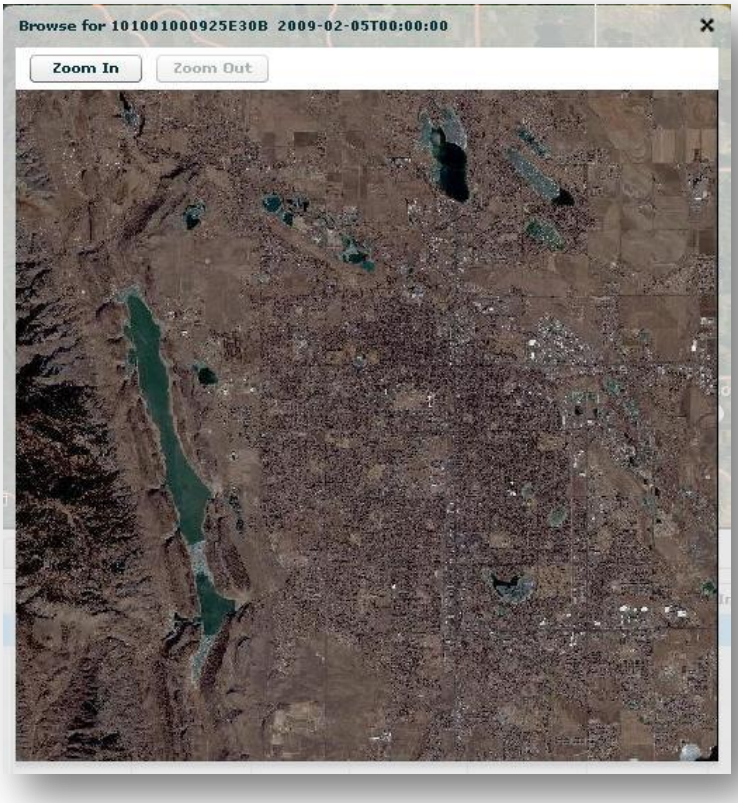


Figure 27: Product Details for Temporal Data



- Clicking on the **(View)** link in the **Browse** column will open a reduced resolution image of the scene you may order

Figure 28: Browse File



- Date is the collect date of the scene, or the day the scene was captured.
- Checking the **Footprint** box will display the footprint of the scene onto the map display with a red square. See Figure 29. Highlighting a row in the table will show the footprint on the map in blue. If however the footprint box is checked, the displayed footprint will remain red.
- Clicking on the **(View)** link in the **Metadata** column of the product details window will open a window with information about the data; see Figure 30.

Figure 29: Footprint Display

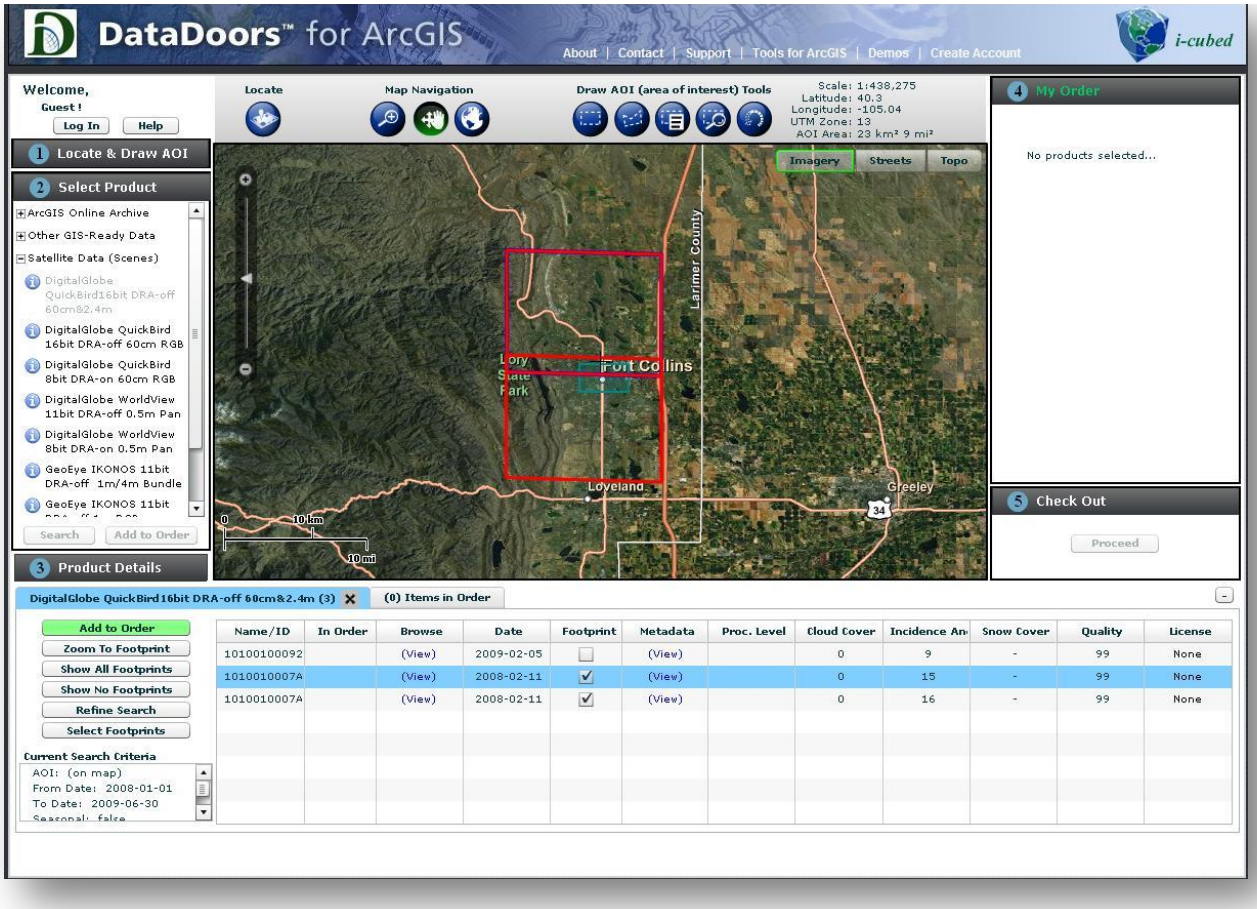
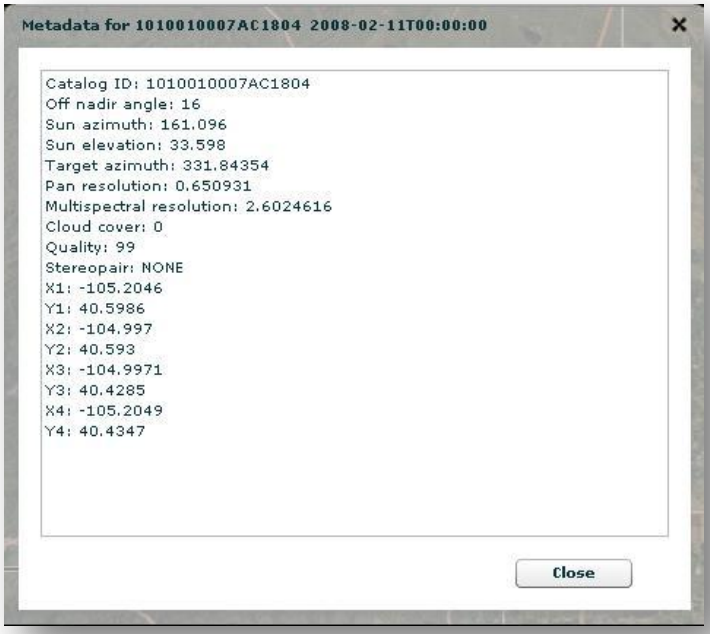


Figure 30: Metadata

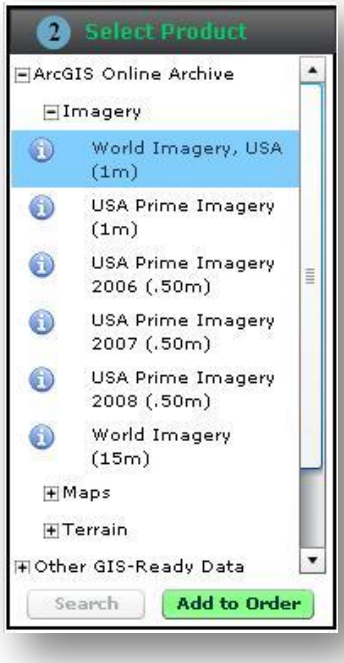


- **Cloud cover**, **Incidence Angle**, **Snow Cover**, and **Quality** are populated from the metadata file provided with the data.
- Highlight a row and click the highlighted **Add to Order** button to add this image to the order, or shopping cart.
  - Multiple scenes can be selected using the mouse. Use Ctrl+click to select and scenes one by one, or Shift+click to select a group of scenes
    - The **My Oder** window will be updated as images are added.

- Footprint tools are available within the Product Details page. These tools make for easier selection of tiles or scenes to be added to the order.
  - To center the footprints in the map, click the **Zoom to Footprints** button on the left.
  - To display all footprints, click the **Show All Footprints** button.
  - To remove displayed footprints from the map window push the **Show No Footprints** button
  - The **Refine Search** button will open the temporal search criteria window again. This allows the user to define other or additional criteria.
  - Push the **Select Footprints** button to select the footprint from within the map display window, as opposed to the Product Details window.
  - The **Current Search Criteria** window displays selected parameters from the temporal Search Criteria window used to populate the Product Details window

2. If non-temporal data has been selected in the Select Product window, the **Add to Order** button is highlighted in the Select Product window. Click the highlighted **Add to Order** button to add non-temporal data directly to your order. The Product Details, Items in Order tab, and My Order windows are populated with information about your order.

Figure 29: Select Product – Add to Order



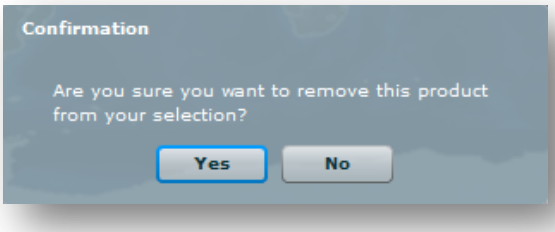
Section 6. My Order

Once you have added a product the **My Order** section will be populated with **Archive**, **Product**, **Number of Items**, **Sq. mi.**, **Processing**, **Format**, **Projection** and **Price**.

Figure 30: My Order

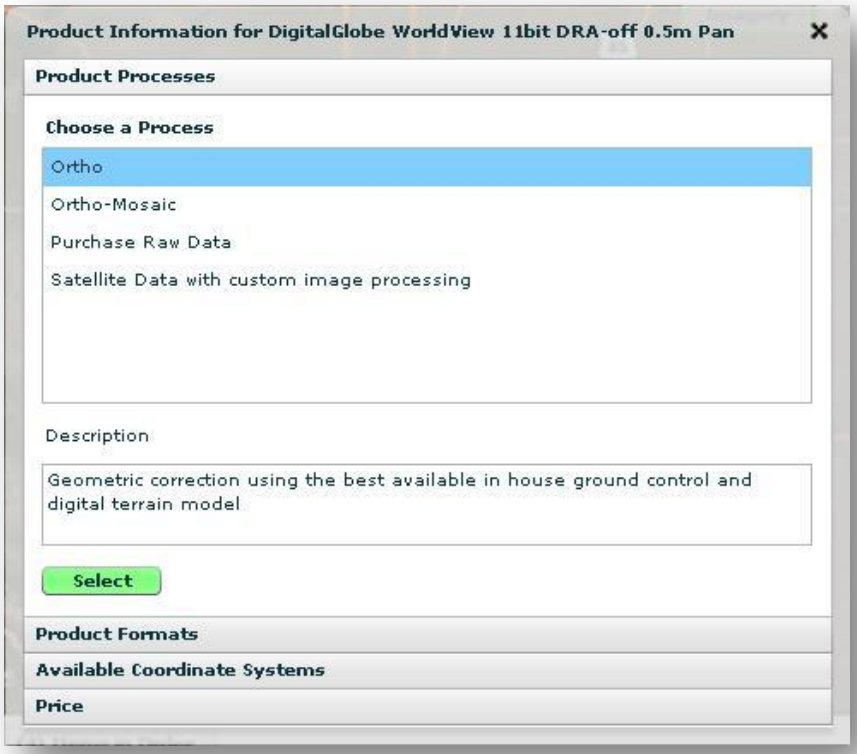
1. Archive
   - Name of the dataset Archive
2. Product
   - The product name of your selection
3. # of items
   - The number of items added to your selection
4. Miles^2 KM^2 (Non-Temporal data only)
   - The amount of ground coverage in square miles
   - If the text is red and (partial) is shown, the data you are about to purchase does not cover the entire ground area of your AOI.
5. Processing
   - Select output processes, formats, and projections to be applied to delivered data. Once selections have been made, the green button disappears and the output processing is listed.
6. Format
   - The type of **Format** will be displayed here once selected
7. Projection
   - The type of **Projection** will be displayed here once selected
8. Price
   - The **Price** will be displayed here once all processing options are selected
9. Remove Product
   - Clicking on the **(Remove)** link will remove the product from the order. This function will reset the AOI as well if/when the last remaining product is removed from the order. To complete the removal, select **Yes** when prompted.

Figure 31: Remove Selection



10. Choosing your Processing options
    - Once you have chosen your product you need to choose the **Processing** options. To do that, click on the green **Choose** button in the **My Order** panel. A **Product Information** dialog will pop up allowing you to step through several options.

Figure 32: Choose Processing Options



- **Product Process:** A process that will manipulate the image data and prepare it for final delivery output to the customer
- **Product Formats:** The image format that data will be delivered in, such as GeoTIFF, JPEG, NITF
- **Available Coordinate Systems:** The projection type that will be applied to the data
- **Scene Pricing:** The price of the product, if applicable
- When all options have been selected, click **Proceed** to close the dialog

Section 7. Check Out

After the processing options have been selected, the Check Out Proceed button becomes active.

Proceed

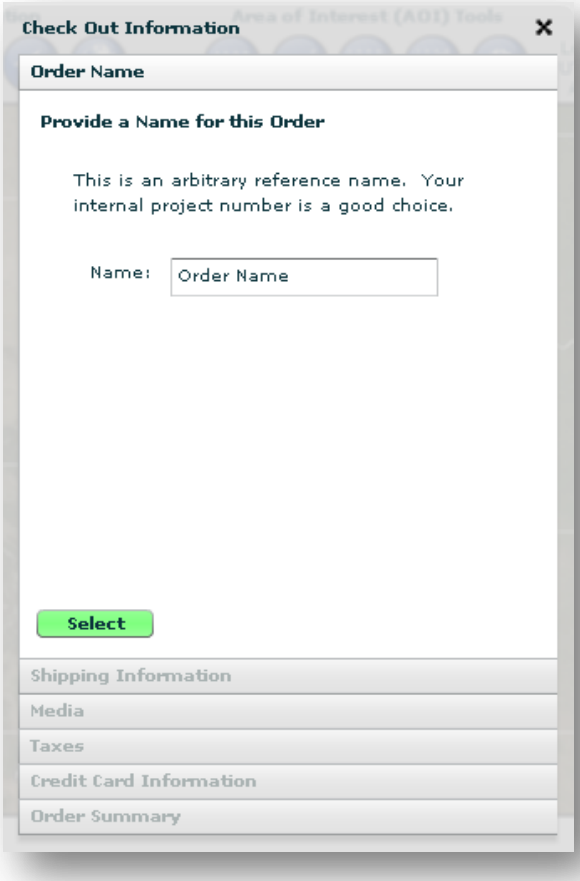
To continue with the order, click **Proceed**. The **Check Out Information** dialog box will load.

Figure 33: Check Out

Selection Name

Enter the name you wish to apply to the order in the **Name** text area. Click the **Select** button to continue.

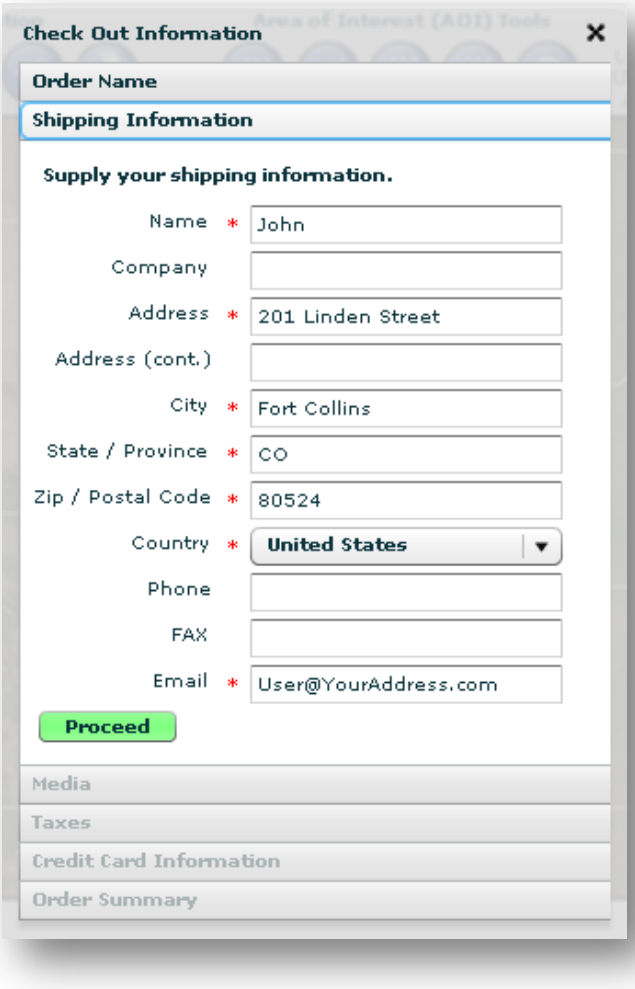
Figure 34: Check Out Information - Selection Name



Check Out Information / Billing Information

Fill out the Billing and Shipping information to continue. The items marked with a red asterisk (*) are required. Click **Proceed** to continue to the **Media Selection**.

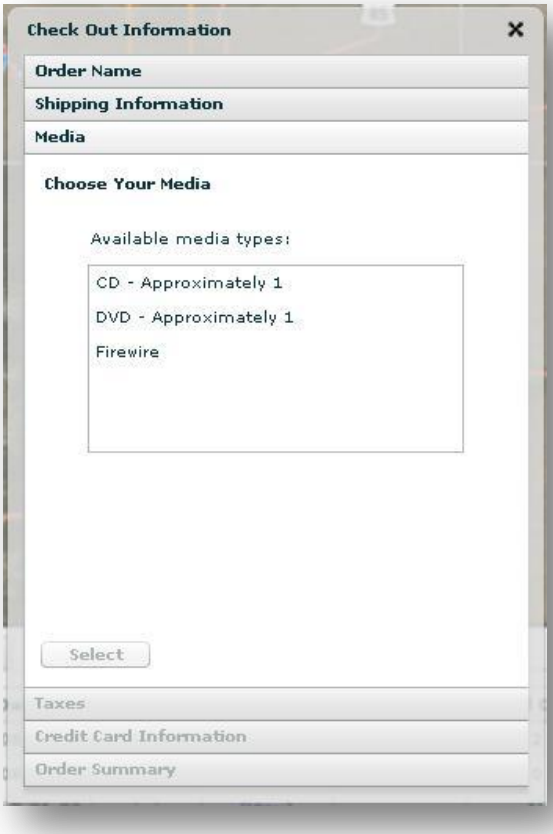
Figure 35: Check Out Information - Contact Details



Media Selection

A **Media** selection option will load. Choose how you wish to receive the data. The options are: **FTP, CD, DVD, FTP+CD, and FTP+DVD.** Click **Proceed** to continue to the **Taxes** dialog.

Figure 36: Check Out Information - Media



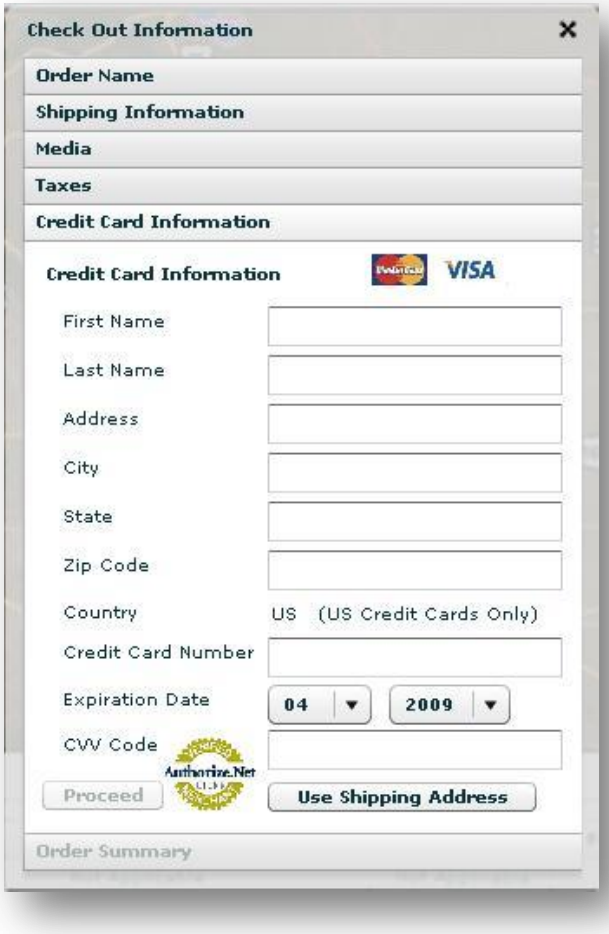
Taxes

The taxes dialog will load with the amount of the taxes added to your order.

Credit Card Information

A Guest user will be required to use a credit card to complete a transaction. Enter your Credit Card information in the window provided. All items are required. A credit card may not be required for a purchase if a Purchase Order or company discount is applied.

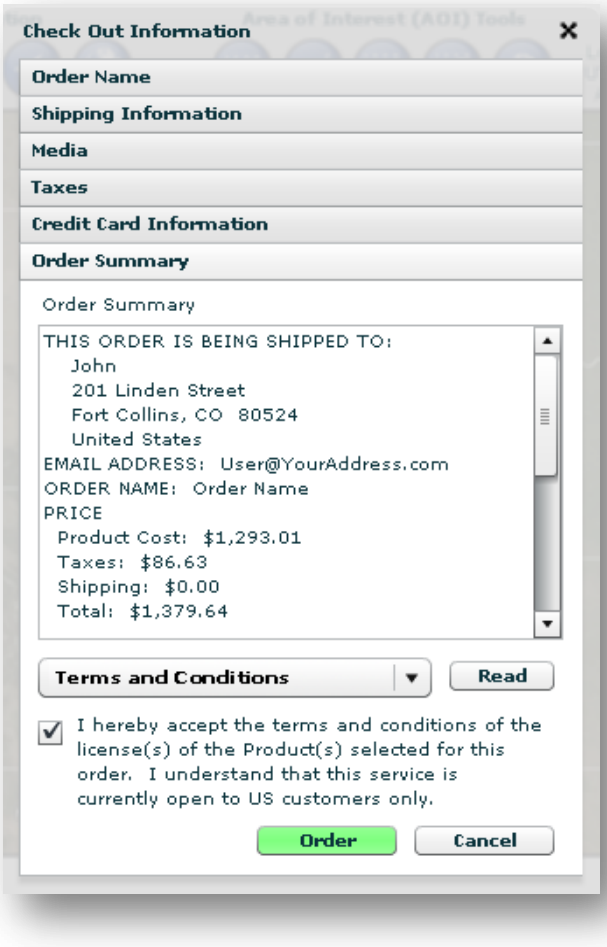
Figure 37: Enter your Credit Card Information



Selection Summary

A **Selection Summary** will load once credit card or other payment is verified. Review the Order Summary, Billing Information and Order details. To continue to place the order, accept the terms and conditions and click **Order**.

Figure 38: Check Out Information - Selection Summary



A confirmation and shipment email will be sent to you with the details of your order.

Thank you for using DataDoors™

For questions or concerns contact DataDoors support at support@datadoors.net